



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

MBD40-ab/EX, Field Device Coupler

NI / I / 2 / ABCD / T4 Ta = 75°C

AIS / I, II, III / 1 / ABCDEFG; IS-2.535; Entity

I / 1 / AEx m e [ia] / IIC / T4 Ta = 75°C; IS-2.535; Entity

Entity Parameters:

$V_{oc} = 15.7 \text{ V dc}$, $I_{sc} = 245 \text{ mA}$, $P_o = 960 \text{ mW}$, $C_a = 476 \text{ nF}$, $L_a = 0.58 \text{ mH}$, $L_o/R_o = 37 \text{ } \mu\text{H}/\Omega$

a = number of spurs; 4 or 8

b = design of terminals; C (Cage clamp), R (detachable blocks, at spur only), or S (screw type)

Special Conditions of Use:

1. Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

Equipment Ratings:

I. Intrinsically Safe Outputs

Nonincendive for Class I, Division 2, Groups A, B, C & D,

Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;

Hazardous (Classified) indoor/outdoor (IP54) Locations

Intrinsically Safe Outputs, with entity parameters, for Connections to Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, and Class I, Zone 0, Group IIC, in accordance with manufacturer's Control Drawing No. IS-2.535

II. Intrinsically Safe Outputs With Optional Enclosures

Nonincendive for Class I, Division 2, Groups A, B, C & D,

Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;

Suitable for Class II, Division 2, Groups E, F & G

Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G

Hazardous (Classified) indoor/outdoor (TYPE 4X, IP54) Locations

Intrinsically Safe Outputs, with entity parameters, for Connections to Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, and Class I, Zone 0, Group IIC, in accordance with manufacturer's

Control Drawing No. IS-2.535

III. Non-Intrinsically Safe Outputs

Nonincendive for Class I, Division 2, Groups A, B, C & D,
Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;
Hazardous (Classified) indoor/outdoor (IP54) Locations

IV. Non-Intrinsically Safe Outputs With Optional Enclosures

Nonincendive for Class I, Division 2, Groups A, B, C & D,
Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;
Suitable for Class II, Division 2, Groups E, F & G
Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G
Hazardous (Classified) indoor/outdoor (TYPE 4X, IP54) Locations

FM Approved for:

Turck Inc.
3000 Campus Drive
Plymouth, MN 55441 USA

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

3600	1998
3610	2010
3611	2004
3810	2005
ANSI/ISA-82.02.01	2004
ANSI/ISA 12.23.01	2002
ISA 12.16.01	2002
IEC60079-0	2004
IEC60079-11	2006
IEC60079-15	2005
IEC60529	2001

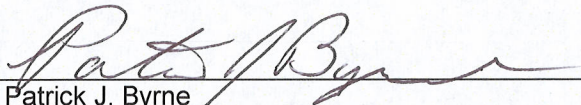
Original Project ID: 3045793

Approval Granted: *October 9, 2012*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC


Patrick J. Byrne
Technical Team Manager

9 October 2012
Date